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CLAIMS

1. A method for selecting a color map for use in printing a document, comprising:

obtaining color space information about the document;

obtaining at least two color maps; and

determining which of the at least two color maps will result in a printed document that is more consistent with the color space information and a desired rending intent.

- 2. The method of claim 1, wherein the at least two color maps are derived from color information obtained by sensors in a print path of a printer.
 - 3. The method of claim 1, wherein the determining step comprises: analyzing a boundary of each color map; and performing a best-fit analysis with respect to the color space information.
 - 4. The method of claim 3, wherein best-fit analysis comprises mean and maximum difference calculations on boundaries of a color space consistent with the color space information and a color space associated with each of the at least two color maps.
- 5. The method of claim 3, wherein best-fit analysis is based on calculating and comparing volumes of a color space associated with the25 document and of a color space associated with each of the color maps.

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- **6.** The method of claim 3, wherein best-fit analysis is based on determining a percentage of colors used by the document contained within each of the at least two color maps.
- 7. The method of claim 3, wherein best-fit analysis is based on determining the percentage of the area of the document associated with colors contained within each of the color maps.
 - **8.** The method of claim 1, additionally comprising: generating a custom gamut mapping.
 - 9. The method of claim 1, additionally comprising:

 previewing an approximation of a printed appearance of the document
 based on at least one of the at least two color maps.
 - 10. The method of claim 1, additionally comprising:

 providing a preferences interface to an author, whereby the author may indicate a preferred rendering intent to constrain the determining step.
- 20 **11.** The method of claim 1, wherein the desired rendering intent is based on an absolute colorimetric.
 - 12. The method of claim 1, wherein desired the rendering intent is based on a perceptual rendering intent.

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1/4 38

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rendering intent.

- 13. The method of claim 1, additionally comprising locating the at least two color maps on a print server.
- 14. The method of claim 1, additionally comprising locating the atleast two color maps on individual printers.

A method, comprising:

- obtaining color space information about a document; evaluating the color space information and at least two color maps; and determining which of the at least two color maps will result in a printed
- 16. The method of claim 15, additionally comprising providing a

library of color maps from which to select for the evaluating step.

document more consistent with the color space information and a desired

17. The method of claim 15, additionally comprising providing an interface to determine the desired rendering intent.

18. A computer-readable medium having computer executable instructions thereon which, when executed by a printing system, cause the printing system to:

obtain color space information on the document;

evaluate the color space information and at least two color maps; and determine which of the at least two color maps will result in a printed document more consistent with the color space information and a desired rendering intent.

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19. A system, comprising:

a document requirements module, to obtain color space information on a document; and

an evaluation module to determine which, of at least two color maps associated with at least one printer, will result in a printed document more consistent with the color space information and a desired rendering intent.

20. The system of claim 19, additionally comprising:

a preferences interface, to obtain information from a document's author on the desired rendering intent.

21. The system of claim 19, additionally comprising:

a gamut management module, in communication with the evaluation module, to organize a gamut library.

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